

Author Index to Volume XLII

- Acker, A.: On the Non-Convexity of Solutions in Free-Boundary Problems Arising in Plasma Physics and Fluid Dynamics, 1165
- Anderson, C., and Greengard, C.: The Vortex Ring Merger Problem at Infinite Reynolds Number, 1123
- Arnold, V. I.: A-Graded Algebras and Continued Fractions, 993
- Avellaneda, M., and Lin, F.-H.: Compactness Methods in the Theory of Homogenization II: Equations in Nondivergence Form, 139
- Caffarelli, L. A.: A Harnack Inequality Approach to the Regularity of Free Boundaries Part II: Flat Free Boundaries are Lipschitz, 55
- Caffarelli, L. A., Gidas, B., and Spruck, J.: Asymptotic Symmetry and Local Behavior of Semilinear Elliptic Equations with Critical Sobolev Growth, 271
- Cantone, D., and Omodeo, E. G.: Topological Syllogistic with Continuous and Closed Functions, 1175
- Carr, J., and Pego, R. L.: Metastable Patterns in Solutions of $u_t = \epsilon^2 u_{xx} - f(u)$, 523
- Chern, I.-L.: Stability Theorem and Truncation Error Analysis for the Glimm Scheme and for a Front Tracking Method for Flows with Strong Discontinuities, 815
- Da Silva Menezes, M. L.: Infinite Genus Curves with Hyperelliptic Ends, 185
- De Masi, A., Esposito, R., and Lebowitz, J. L.: Incompressible Navier-Stokes and Euler Limits of the Boltzmann Equation, 1189
- Deift, P., Li, L. C., and Tomei, C.: Matrix Factorizations and Integrable Systems, 443
- Deift, P. A., and Li, L. C.: Generalized Affine Lie Algebras and the Solution of a Class of Flows Associated with the QR Eigenvalue Algorithm, 963
- Deturck, D. M., and Gordon, C. S.: Isospectral Deformations II: Trace Formulas, Metrics, and Potentials, 1067
- DiPerna, R. J., and Lions, P. L.: Global Weak Solutions of Vlasov-Maxwell Systems, 729
- Donsker, M. D., and Varadhan, S. R. S.: Large Deviations from a Hydrodynamic Scaling Limit, 243
- Esposito, R.: see De Masi, A.
- Floer, A.: Cuptlength Estimates on Lagrangian Intersections, 335
- Gidas, B.: see Caffarelli, L. A.
- Giga, Y., and Kohn, R. V.: Nondegeneracy of Blowup for Semilinear Heat Equations, 845
- Gordon, C. S.: see Deturck, D. M.
- Greengard, C.: see Anderson, C.
- Hardt, R., and Lin, F.-H.: Partially Constrained Boundary Conditions with Energy Minimizing Mappings, 309
- Hausman, M., and Shapiro, H. N.: On Ramanujan's Right Triangle Conjecture, 885
- Horozov, E., and Van Moerbeke, P.: The Full Geometry of Kowalewski's Top and (1,2)-Abelian Surfaces, 357
- Ishii, H.: On Uniqueness and Existence of Viscosity Solutions of Fully Nonlinear Second-Order Elliptic PDE's, 15
- Kichenassamy, S.: Compactness Theorems for Differential Forms, 47
- Kipnis, C., Olla, S., and Varadhan, S. R. S.: Hydrodynamics and Large Deviation for Simple Exclusion Processes, 115
- Kohn, R. V.: see Giga, Y.
- Layton, H. E.: see Pitman, E. B.
- Lebowitz, J. L.: see De Masi, A.
- Lee, J. M., and Uhlmann, G.: Determining Anisotropic Real-Analytic Conductivities by Boundary Measurements, 1097
- Li, L. C.: see Deift, P.
- Lin, F. H.: Asymptotic Behavior of Area-Minimizing Currents in Hyperbolic Space, 229
- Lin, F.-H.: Nonlinear Theory of Defects in Nematic Liquid Crystals; Phase Transition and Flow Phenomena, 789
- Lin, F.-H.: see Avellaneda, M.; see Hardt, R.
- Lions, P. L.: see DiPerna, R. J.
- McKean, H. P.: Geometry of KdV (5): Scattering from the Grassmanian Viewpoint, 685
- Mascagni, M.: An Initial-Boundary Value Problem of Physiological Significance for Equations of Nerve Conduction, 213

- Mumford, D., and Shah, J.: Optimal Approximations by Piecewise Smooth Functions and Associated Variational Problems, 577
- Olla, S.: see Kipnis, C.
- Omodeo, E. G.: see Cantone, D.
- Pego, R. L.: see Carr, J.
- Peskin, C. S.: Fiber Architecture of the Left Ventricular Wall: An Asymptotic Analysis, 79
- Peskin, C. S., and Schlick, T.: Molecular Dynamics by the Backward-Euler Method, 1001
- Peskin, C. S.: see Schlick, T.
- Pitman, E. B., and Layton, H. E.: Tubuloglomerular Feedback in a Dynamic Nephron, 759
- Schilling, R. J.: Generalizations of the Neumann System. A Curve Theoretical Approach—Part II, 409
- Schlick, T., and Peskin, C. S.: Can Classical Equations Simulate Quantum-Mechanical Behavior? A Molecular Dynamics Investigation of a Diatomic Molecule with a Morse Potential, 1141
- Schlick, T.: see Peskin, C. S.
- Sever, M.: Uniqueness Failure for Entropy Solutions of Hyperbolic Systems of Conservation Laws, 173
- Shah, J.: see Mumford, D.
- Shapiro, H. N., and Shlapentokh, A.: Diophantine Relationships Between Algebraic Number Fields, 1113
- Shapiro, H. N.: see Hausman, M.
- Shlapentokh, A.: Extension of Hilbert's Tenth Problem to Some Algebraic Number Fields, 939
- Shlapentokh, A.: see Shapiro, H. N.
- Sideris, T. C.: Global Existence of Harmonic Maps in Minkowski Space, 1
- Spruck, J.: see Caffarelli, L. A.
- Sznitman, A.-S.: Lifschitz Tail and Wiener Sausage on Hyperbolic Space, 1033
- Tomei, C.: see Deift, P.
- Uhlenbeck, K., and Yau, S. T.: A Note on our Previous Paper: On the Existence of Hermitian Yang-Mills Connections in Stable Vector Bundles, 703
- Uhlmann, G.: see Lee, J. M.
- Van Moerbeke, P.: see Horozov, E.
- Varadhan, S. R. S.: see Kipnis, C.; see Donsker, M. D.
- Venakides, S.: The Continuum Limit of Theta Functions, 711
- Weinberger, S.: Finite Detection of Compact Atoms I, 299
- Yau, S. T.: see Uhlenbeck, K.
- Zhou, X.: Direct and Inverse Scattering Transforms with Arbitrary Spectral Singularities, 895

